

## Gulf of Mexico Harmful Algal Bloom Bulletin

10 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: November 7, 2005

**Conditions:** Harmful algal blooms have been identified in patches at Dixie, Levy, and from southern Pinellas to Sarasota counties. A second bloom has been identified in patches at Okaloosa, Bay, and Franklin Counties. The following patchy impacts are possible through Monday: none to low impacts in Dixie, Levy, and Sarasota counties, low to moderate impacts in Okaloosa, Bay and Franklin Counties. Dead fish have been reported in Okaloosa, Franklin and Levy counties over the past few days. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as harmful algal blooms.

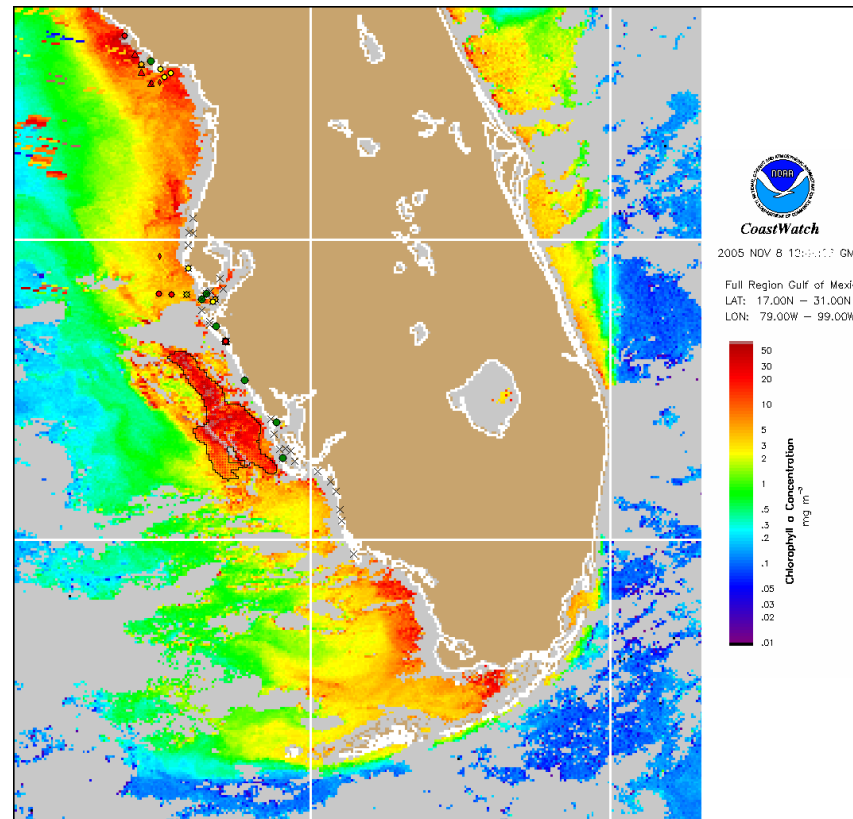
**Analysis:** The bloom persists along southwest Florida. Northeasterlies and easterlies continue to favor intensification, offshore transport, and westward expansion. Elevated chlorophyll bands ( $>20 \mu\text{g/l}$ ) persist approximately 15 and 36 miles offshore and parallel to coastline, from Tampa Bay ( $27^{\circ}25'\text{N}$ ,  $82^{\circ}58'\text{W}$ ) to Captiva Island ( $26^{\circ}29'\text{N}$ ,  $82^{\circ}30'\text{W}$ ). Hot spots are offshore of Sarasota Bay ( $27^{\circ}11'\text{N}$ ,  $82^{\circ}51'\text{W}$ ), Venice ( $26^{\circ}57'\text{N}$ ,  $82^{\circ}41'\text{W}$ ), and Lemon Bay ( $26^{\circ}47'\text{N}$ ,  $82^{\circ}33'\text{W}$ ). Recommend sampling near hot spots. Offshore winds will continue to minimize impacts.

The bloom persists in Dixie and Levy counties. A hot spot ( $>20 \mu\text{g/l}$ ) extends up to 11 miles offshore. The northern extent is near Horseshoe Point ( $26^{\circ}47'\text{N}$ ,  $82^{\circ}33'\text{W}$ ) and the southern extent is located near the Dixie-Levy county line ( $29^{\circ}8'\text{N}$ ,  $83^{\circ}10'\text{W}$ ).

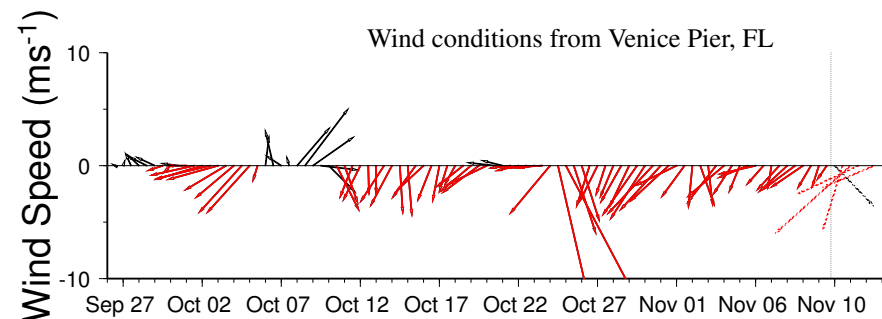
~Fenstermacher, Keller

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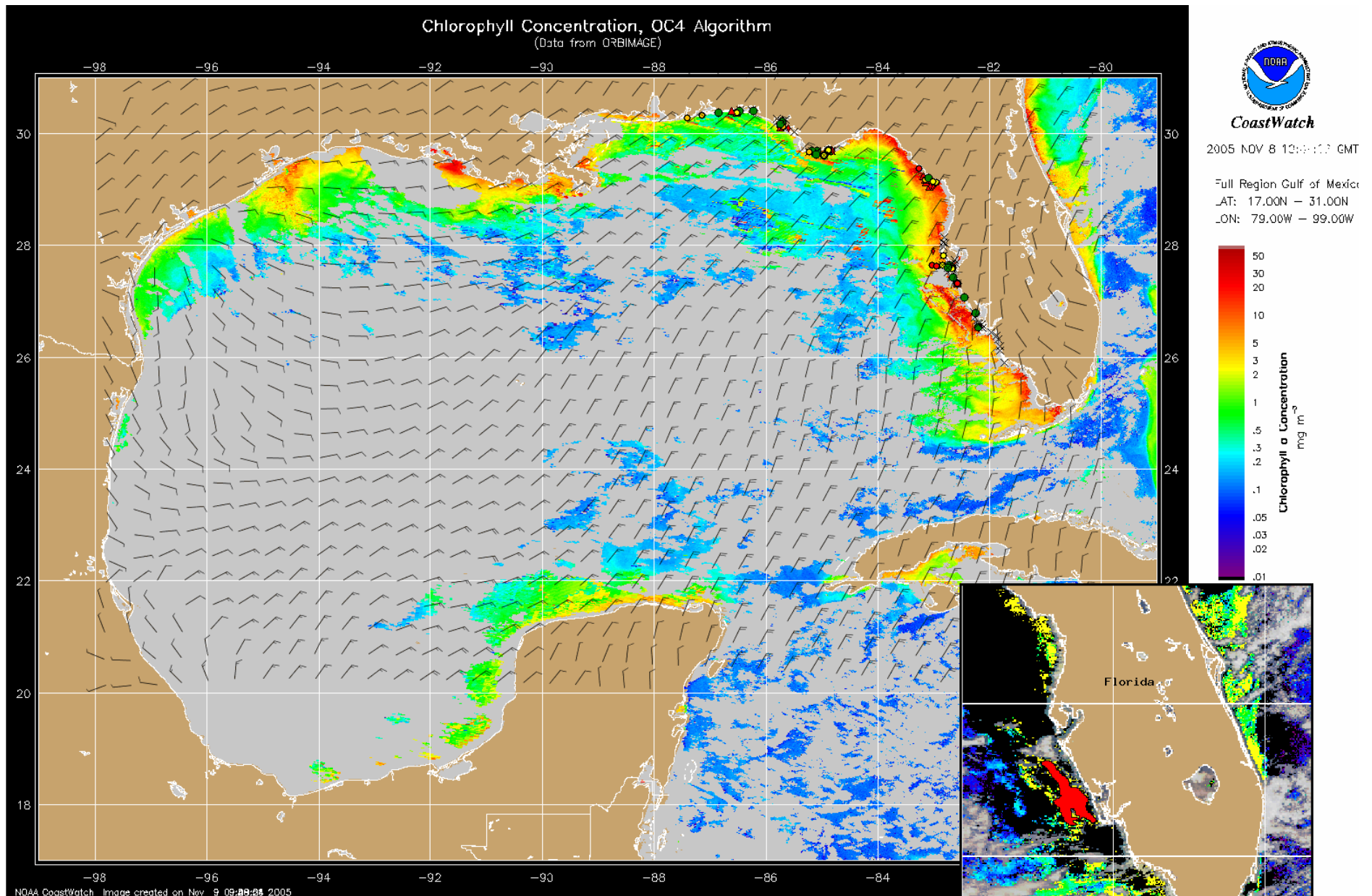


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northwest winds today followed by northeasterlies winds tonight and Friday (10-15 knots; 5-8 m/s). Easterlies Friday night through Sunday (10-15 knots; 5-8 m/s).



Chlorophyll concentration from satellite and forecast winds for November 11, 2005 12Z with cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)